

IN THE CLAIMS:

Amendments to the Claims

Please amend claims 1, 9, 12 and 13 as shown below, please cancel claims 2-8, 10-11 and 14 without prejudice or disclaimer of the subject matter thereof, and please add the new claims as shown below.

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A ~~liquid crystal~~ display device for displaying video data, comprising:

~~an input video data characteristic~~ a detection section circuit for detecting a luminance ~~characteristic to the gradation of~~ distribution indicative of generation frequency of gradations in each of a plurality of divided regions, each divided region including a plurality of gradations based on the inputted video data which is inputted,

a determination circuit for determining a divided region of higher generation frequency of gradation than that of other divided regions based on the luminance distribution,

a gradation correction section circuit for correcting the gradation in accordance with the video data so as to make a luminance characteristic of the divided region of higher generation frequency of gradation more abrupt than a luminance characteristic of the other divided regions, and

a liquid crystal display panel for displaying the corrected gradation video data.

Claims 2-8 (canceled)

9. (currently amended) A ~~crystal~~-display device according to claim 1, wherein the ~~input video image characteristic detection section~~circuit detects the luminance ~~characteristic distribution~~ on every one or plural frames of the inputted video data.

Claims 10 and 11 (canceled)

12. (currently amended) A ~~crystal~~-display device according to claim 1, wherein the ~~input video data characteristic detection section~~circuit comprises:

a detection setting section for setting a detection period,

a divisional number setting section for setting a divisional number ~~of dividing the gradation of the inputted video data~~ for the divided regions, and

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a luminance distribution detection ~~portion~~section for accumulating the generation frequency of gradations in the regions each divided region divided by the divisional number set by the divisional number setting section during the detection period set by the detection setting section,

~~a maximum/minimum luminance detection portion for detecting the maximum luminance and the minimum luminance in each of the regions divided by the divisional number set in the divisional number setting section during detection period set by the detection setting section, and~~

~~an average luminance detection portion for detecting the average luminance in each of the regions divided by the divisional number set in the divisional number setting section during the detection period set by the detection setting section.~~

13. (currently amended) A ~~liquid crystal~~-display device according to claim 1, wherein the device further comprises a gradation correction coefficient generation section f or calculating a correction coefficient in each ~~of the gradations~~ divided

region based on the ~~generation frequency of the gradation~~ luminance distribution detected by the ~~input video data characteristic detection section~~ circuit.

Claim 14 (canceled)

15. (withdrawn) A liquid crystal display device for displaying video data comprising:

a liquid crystal panel,

a back light for illuminating the liquid crystal panel,

an input video data characteristic detection section for detecting the luminance characteristic to the gradation of the inputted video data and a back light control section for controlling the amount of light of the back light in accordance with the luminance characteristic.

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16. (withdrawn) A liquid crystal display device according to claim 15, wherein the luminance characteristic contains an average luminance in one or plural frames.

17. (withdrawn) A liquid crystal display device according to claim 15, wherein the back light control section relatively decreases the amount of light of the back light when the luminance in one or plurality of frames is lower compared with the luminance in other one or plural frames.

18. (withdrawn) A liquid crystal display device according to claim 15, wherein the back light control section relatively increases the light amount of light of the back light when the luminance in one or plural frames is higher compared with the luminance in other one or plural frames.

19. (withdrawn) A liquid crystal display device according to claim 15, wherein the back light control section decreases the amount of light of the back light when the luminance of the inputted video data decreases.

20. (withdrawn) A liquid crystal display device according to claim 15, wherein the back light control section increases the amount of light of the back light when the luminance of the inputted video data increases.

21. (new) A display device according to claim 1, wherein the correction circuit increases output gradation number against input gradation number of the divided region of higher generation frequency of gradation more than output gradation number against input gradation number of the other divided regions.

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22. (new) A display device according to claim 1, wherein the correction circuit corrects the video data to emphasize contrast of the divided region of higher generation frequency of gradation more than contrast of the other divided regions.

23. (new) A display device according to claim 1, further comprising:
a data driver for outputting to the display panel a driving voltage corresponding to the corrected video data; and
a scan driver for outputting to the display panel a scanning voltage for enabling the display panel to display the corrected video data;
wherein the display panel displays the corrected video data based on the driving voltage and the scanning voltage.

24. (new) A display device for displaying video data, comprising:
a detection circuit for detecting a luminance distribution indicative of generation frequency of gradations in each of a plurality of divided regions, each

divided region including a plurality of gradations based on the video data which is inputted;

a determination circuit for determining a divided region of higher generation frequency of gradation than that of other divided regions based on the luminance distribution;

a correction circuit for correcting the video data by increasing an output gradation number against an input gradation number of the divided region of higher generation frequency of gradation more than an output gradation number against an input gradation number of other divided regions; and

a display panel for displaying the corrected video data.

Print 25. (new) A display device for displaying video data, comprising:

a detection circuit for detecting a luminance distribution indicative of generation frequency of gradations in each of a plurality of divided regions, each divided region including a plurality of gradations based on the video data which is inputted;

a determination circuit for determining a divided region of higher generation frequency of gradation than that of other divided regions based on the luminance distribution;

a correction circuit for correcting the video data so as to emphasize contrast of the divided region of higher generation frequency of gradation more than contrast of the other divided regions; and

a display panel for displaying the corrected video data.
